

Product Texts

Impact Modified, Flame Retardant, Good Flow

ISO 1043 PC FR

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| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|---------------|------------------------|-----------------|
| ISO Data | | | |
| ^[C] Melt volume-flow rate, MVR | 6 | cm ³ /10min | ISO 1133 |
| Temperature | 300 | °C | - |
| Load | 1.2 | kg | - |
| ^[C] Molding shrinkage, parallel | 0.8 | % | ISO 294-4, 2577 |
| ^[C] Density of melt | 1040 | kg/m ³ | - |
| ^[C] Thermal conductivity of melt | 0.26 | W/(m K) | - |
| ^[C] Spec. heat capacity of melt | 2150 | J/(kg K) | - |
| ^[C] Eff. thermal diffusivity | 1.5E-7 | m ² /s | - |
| ^[C] Ejection temperature | 144 | °C | - |

[C]: CAMPUS

| Mechanical properties | Value | Unit | Test Standard |
|--|---------------|------|---------------|
| ISO Data | | | |
| ^[C] Tensile Modulus | 2200 | MPa | ISO 527 |
| ^[C] Yield stress | 55 | MPa | ISO 527 |
| ^[C] Yield strain | 6 | % | ISO 527 |
| ^[C] Nominal strain at break | >50 | % | ISO 527 |
| ^[C] Puncture - maximum force, +23°C | 5500 | N | ISO 6603-2 |
| ^[C] Puncture - maximum force, -30°C | 6000 | N | ISO 6603-2 |
| ^[C] Puncture energy, +23°C | 60 | J | ISO 6603-2 |
| ^[C] Puncture energy, -30°C | 60 | J | ISO 6603-2 |

[C]: CAMPUS

| Thermal properties | Value | Unit | Test Standard |
|--|------------|-------|-----------------|
| ISO Data | | | |
| ^[C] Temp. of deflection under load, 1.80 MPa | 130 | °C | ISO 75-1/-2 |
| ^[C] Vicat softening temperature, B | 145 | °C | ISO 306 |
| ^[C] Coeff. of linear therm. expansion, parallel | 65 | E-6/K | ISO 11359-1/-2 |
| ^[C] Burning Behav. at 1.5 mm nom. thickn. | V-1 | class | IEC 60695-11-10 |
| Yellow Card available | yes | - | - |
| ^[C] Burning Behav. at thickness h | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 2.5 | mm | - |
| Yellow Card available | yes | - | - |
| ^[C] Burning Behav. 5V at thickness h | 5VB | class | IEC 60695-11-20 |
| Thickness tested | 2.5 | mm | - |
| Yellow Card available | yes | - | - |
| ^[C] Oxygen index | 28 | % | ISO 4589-1/-2 |

[C]: CAMPUS

| Electrical properties | Value | Unit | Test Standard |
|---|-----------------|-------|---------------|
| ISO Data | | | |
| ^[C] Relative permittivity, 100Hz | 2.9 | - | IEC 62631-2-1 |
| ^[C] Relative permittivity, 1MHz | 2.8 | - | IEC 62631-2-1 |
| ^[C] Dissipation factor, 100Hz | 6.6 | E-4 | IEC 62631-2-1 |
| ^[C] Dissipation factor, 1MHz | 92 | E-4 | IEC 62631-2-1 |
| ^[C] Volume resistivity | >1E13 | Ohm*m | IEC 62631-3-1 |
| ^[C] Surface resistivity | >1E15 | Ohm | IEC 62631-3-2 |
| ^[C] Electric strength | 29 | kV/mm | IEC 60243-1 |
| ^[C] Comparative tracking index | 200 | - | IEC 60112 |

[C]: CAMPUS

| Other properties | Value | Unit | Test Standard |
|---------------------------------|-------------|-------------------|----------------|
| ^[C] Water absorption | 0.35 | % | Sim. to ISO 62 |
| ^[C] Density | 1200 | kg/m ³ | ISO 1183 |

[C]: CAMPUS

| Test specimen production | Value | Unit | Test Standard |
|--|------------|------|---------------|
| ISO Data | | | |
| ^[C] Injection Molding, melt temperature | 290 | °C | ISO 294 |
| Injection Molding, mold temperature | 80 | °C | ISO 294 |

[C]: CAMPUS

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|------------------|------|---------------|
| Pre-drying - Temperature | 120 | °C | - |
| Pre-drying - Time | 4 | h | - |
| Processing humidity | ≤0.03 | % | - |
| Melt temperature | 290 - 320 | °C | - |
| Mold temperature | 50 - 110 | °C | - |
| Zone 1 | 270 - 285 | °C | - |
| Zone 2 | 280 - 300 | °C | - |
| Zone 3 | 290 - 310 | °C | - |
| Nozzle temperature | 280 - 295 | °C | - |

Characteristics

Processing

Injection Molding

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Delivery form

Pellets

Regional Availability

Europe

Additives

Release agent

Other text information

Injection molding

[Injection Molding Recommendations](#)